

# Peacekeeping Event Data: Determining the Place and Space of

## Peacekeeping<sup>1</sup>

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### Introduction

Recent literature on peacekeeping recognizes the importance of local conditions as determinants of the ‘space for peace’ and, at the same time, treats ‘bottom-up’ peacekeeping as a central criterion for its effectiveness.<sup>2</sup> Accordingly, we have collected event data to analyze the impact of peacekeeping at a highly disaggregate, or local/subnational, level. Peacekeeping events are defined as data points where peacekeepers are either actors or targets of an action at a specific location and time point. Ideally time and place are recorded at the highest precision – indicating exact longitude and latitude as well as exact time of day – but often such precision remains elusive. Regardless, peacekeeping event data help to identify *where* peacekeepers are deployed, *what* they do, *with whom* they interact, as well as the *quality* of the interaction.

We have engaged in four efforts to identify peacekeeping events:

Peacekeeping Location Event Data (PKOLED),<sup>3</sup> a pilot study to (semi)automate such coding in Automated Peacekeeping Events, PKO Deployment data

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<sup>1</sup> We gratefully acknowledge financial support of the Folke Bernadotte Academy, Sweden, for the various collections of peacekeeping events.

<sup>2</sup> Autesserre, ‘Going Micro’.

<sup>3</sup> Dorussen and Ruggeri, ‘Introducing PKOLED’

(PKODEP)<sup>4</sup> and Peacekeeping Governance data (PKOGOV).<sup>5</sup> The data have provided a better understanding of the local dimensions of peacekeeping, and helped to bridge the divide between quantitative comparative research and ethnographic case studies. At the same time, the coding and management of event data pose some clear challenges. Also conceptually, event data necessitate a careful assessment of the salient spatial features of peacekeeping.

Hence, we differentiate between the *place* and *space* of peacekeeping next. Secondly we briefly visualize geo-referenced peacekeeping events to highlight key features. Thirdly we summarize the key findings of previous research, and conclude by discussing weaknesses in existing data and suggesting avenues for future research.

### **The *Place* and *Space* of Peacekeeping**

To comprehend social phenomena requires “understanding the arrangements of particular social actors in particular social times and places ... Social facts are *located*”.<sup>6</sup> Accordingly local peacekeeping recognizes the importance of activities throughout the area of operations and thus corrects for a biased focus on a country’s capital. Local peacekeeping emphasizes interactions between peacekeepers and locals; for example, when peacekeepers mediate in local disputes. At the same time, local peacekeeping is not necessarily bottom-up peacekeeping; for example, when the implementation of centrally agreed peace requires peacekeepers to monitor military activities at particular localities.

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<sup>4</sup> Ruggeri, Dorussen and Gizelis, ‘On the Frontline Every Day?’

<sup>5</sup> Dorussen and Gizelis, ‘Into the Lion’s Den’

<sup>6</sup> Abbott, ‘Of Time and Space’, 1152.

Recognizing these distinctions, it is useful to separate the concept of locality as *place* from social *space* and to link each to unique conflict and conflict resolution mechanisms, as well as to distinct roles for peacekeepers. The basic idea is not particularly new and is well known in geography. However, the implications for our understanding of peacekeeping and what specific peacekeeping event data are most relevant are not generally appreciated. Spatial thinking is “about where things are or where they happen, and it is especially about where they are in relation to others”.<sup>7</sup>

The reasons for why a conflict erupts at a particular place are not necessarily local, or confined to that space. Localities (*places*) are more susceptible to conflict if they are either strategically valuable or contested.<sup>8</sup> However, local grievances and agendas also create *spaces* for conflict.<sup>9</sup> Support of civilians for either rebels or government has often less to do with (national) policy or ideology, but instead is motivated by personal grievances and the prospect of personal gains. If so, civil war becomes a pretext to settle what are basically local disputes. Hence, peacekeepers support peace agreements via enforcement, credible commitment, deterrence, and re-assurance.<sup>10</sup> Note that the first two mechanisms emphasize features of place while the latter two focus on space.

By means of monitoring and reporting on actions ‘on the ground’, peacekeepers may enable the government and rebels to credibly commit to a

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<sup>7</sup> Logan, ‘Making a Place for Space’, 508.

<sup>8</sup> Cederman, Gleditsch and Buhaug, *Inequality, Grievances, and Civil War*.

<sup>9</sup> Kalyvas, *The Logic of Violence*.

<sup>10</sup> Fortna, *Does Peacekeeping Work?*

peace agreement. The presence of peacekeepers in specific localities matters because it binds leaders to act locally in line with centrally agreed principles. Further, peace agreements can pose moral hazard problems in that they create new opportunities for conflict, for example, when disarmament, demobilization and reintegration (DDR) or security sector reform (SSR) processes impact on the relative military capabilities of government and rebel forces. Peacekeeping event data can help to identify where peacekeepers are deployed to monitor the separation of troops or their demobilization. Peacekeepers can also substitute for lack of effective control by elites. Peacekeepers fill the power vacuum that prevails in the aftermath of armed conflict when governments often lack capacity to effectively control the whole country and to deal decisively with actors that have remained outside the peace process.

At the same time peacekeeping can address local conflicts: peacekeepers need to recognize tensions, provide early warning, and increase awareness that conflict often persists in parts of the country. Here, peacekeepers are called upon to engage with local conflict dynamics, or the local as social *space*. Providing accurate information again plays an important role in dealing with local conflict, but peacekeepers also regularly mediate in local conflicts using a broad set of mediation techniques, including gathering information, meeting separately or collectively with disputants. Finally, peacekeepers may deter (or prevent) the onset of local conflict when their presence and actions discourage parties to use force. UN Peace Operations have shifted from observing ceasefires and traditional peacekeeping (which typically requires strict neutrality) to active engagement with the fighting parties. Peacekeepers can deter the resumption of fighting if patrolling demonstrates effective control. During the conflict, elites

tend to encourage, mobilize and arm grassroots groups that often fight alongside 'regular' troops. Such grassroots organizations can retain a strong local identity and powerbase. Robust peacekeeping can however deter the use of violence by spoiler or renegade factions

To appreciate the value and limitations of peacekeeping along these various dimensions requires highly detailed data. The promise of peacekeeping event data is to identify not only the presence (and size) of peacekeeping deployment locally, but also with whom peacekeepers interact and in what capacity.

### **Disaggregating Peacekeeping**

Most of the quantitative literature on peacekeeping that developed in the 2000s<sup>11</sup> used country (or conflict) as the main analytical unit. As we have just argued, theories of peacekeeping imply a different analytical granularity, more disaggregated in terms of actors, strategic timing and geographical operations. More recently, the quantitative study of peacekeeping has moved to a more disaggregated temporal analysis using monthly dynamics and mission size<sup>12</sup> and considering the composition of particular missions.<sup>13</sup>

Our collections of event data contribute to a further disaggregation of UN peacekeeping data to the subnational level and with temporal variation. The

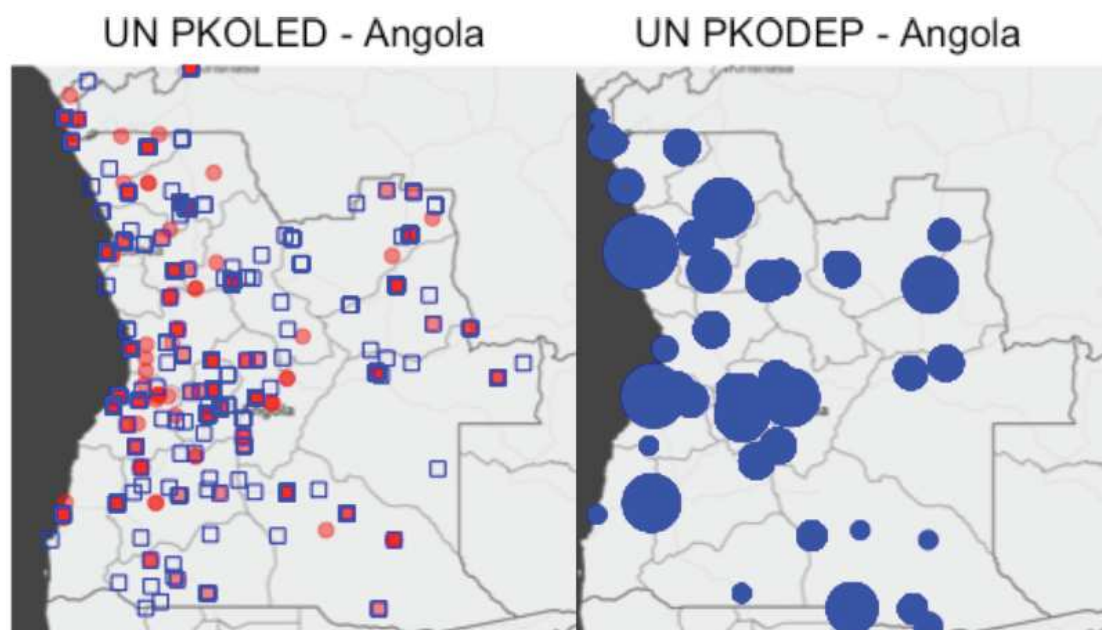
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<sup>11</sup> See Doyle and Sambanis, *Making War and Building Peace*; Fortna, *Does Peacekeeping Work?*

<sup>12</sup> See Hultman, Kathman and Shannon, 'United Nations Peacekeeping'; Hultman, Kathman and Shannon, 'Beyond Keeping Peace'.

<sup>13</sup> Bove and Ruggeri, 'Kinds of Blue'

event data mainly cover UN mission in Africa between 1989 and 2006.<sup>14</sup> As an illustration, Figure 1 provides a map of Angola using data from PKOLED and PKODEP. The red dots on the left-side map identify PKOLED events where UN peacekeepers were directly involved as actors or targets of cooperative or conflictual events. The hollow blue squares indicate where the peacekeepers were observing cooperative or conflictual events.<sup>15</sup>



Note: Left figure: red dots indicate peacekeeping events with direct UN PKO involvement, blue squares are events where UN PKO observed events. Right figure: blue dots, UN PKO deployment relative to size.

**Figure 1: Peacekeeping events (PKOLED) and deployment (PKODEP) in Angola 1989-1999**

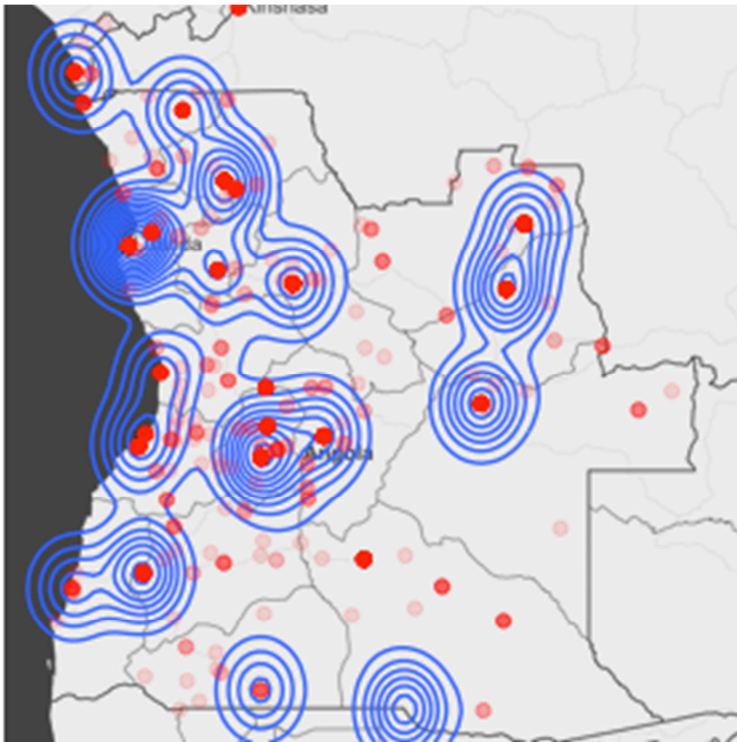
PKODEP contains information about the deployment of UN peacekeepers subnationally for all UN missions in Africa, including information on the size of

<sup>14</sup> PKOLED covers all UN mission after 1989 until 2006.

<sup>15</sup> PKOLED includes further variables identifying different typologies of actions as well as coding precision in terms of temporal and geographical information.

deployment and the variation over time. In Figure 1, the right-side map shows where peacekeepers were deployed. Here, the size of the circles is a function of their local deployment size.

Figure 2 combines information from both datasets. The blue lines are density function based on PKODEP to indicate the spatial reach of the peacekeeper deployment. The red dots are the PKOLED events, where the transparency of the dots is a function of the number of event at a specific location. As to be expected, peacekeeping events (PKOLED) overlap with the deployment of peacekeepers (PKODEP). However, and quite interestingly, there are also many instances where peacekeeping events are far from the areas of deployment. PKOLED and PKODEP thus appear to present different information about local peacekeeping.



Note: density probabilities of deployment (PKODEP) in blue and peacekeeping events (PKOLED) in red.

## **Figure 2: Peacekeeping Events (PKOLED) and Deployment (PKODEP) in Angola 1989-1999**

### **Key Findings**

Based on the various projects introduced above, our analyses of the peacekeeping event data provide a fairly coherent picture. First of all, UN peacekeeping remains predominantly top-down. Peacekeepers engage more, and more cooperatively, with government (or central) authorities; in particular, if the UN rebuilds central administration.<sup>16</sup> Collaboration with rebel authorities is more problematic; particularly when the UN is seen as replacing central authority.

We have also found that relatively weak rebel groups (compared to the central government) are more cooperative towards larger UN peacekeeping missions, possibly because they offer effective protection.<sup>17</sup> Here we were able to evaluate the role of power relations between incumbent and rebels vis-à-vis the UN peacekeepers creating data events with monthly variation and coding cooperative actions toward the peacekeepers.

Turning to the subnational deployment of peacekeepers, we find that peacekeepers are deployed to conflict areas within countries, but with a considerable time delay. They also tend to deploy near urban areas. These findings rely on geo-referenced information on UN deployment (PKODEP) in

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<sup>16</sup> Dorussen and Gizelis, 'Into the Lion's Den'

<sup>17</sup> Ruggeri, Gizelis, and Dorussen, 'Managing Mistrust'



African UN missions in between 1989 and 2006.<sup>18</sup> Finally, even controlling for selection bias in deployment and interaction, peacekeepers tend to control conflict locally, but we have found no evidence that they are able to prevent local conflict. Peacekeepers are ‘effective’ locally already with modest deployment, which makes peacekeeping clearly distinct from counter-insurgency operations.<sup>19</sup>

### **Discussion and Future Research**

The different peacekeeping event data we have collected share a number of features and possible limitations. First of all, they focus on United Nations peacekeeping and rely predominantly on reports of the UN Secretary General. We recognize that regional organisations increasingly participate in peacekeeping, and the responsibility for peacekeeping is regularly shared between the UN and regional organisations, such as the EU, AU and OAS<sup>20</sup>. Peacekeeping events are now also more widely reported and access to local media has improved. Social media are potentially a further source of valuable information. On the balance, we are yet to be convinced that the ‘noise-to-information’ ratio justifies a coding of all these sources, but given the advances in (semi-)automated coding our original decisions seem overly restrictive.

Secondly, the various dataset all rely on hand coding. The data are quite detailed in identifying actors and activities, but unfortunately much less so in

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<sup>18</sup> Ruggeri, Dorussen and Gizelis, ‘On the Frontline Every Day?’

<sup>19</sup> Ruggeri, Dorussen and Gizelis, ‘Winning the Peace Locally’

<sup>20</sup> See in this issue van der Lijn and Smit. They highlight the problems associated with collection of non-UN PKO data.

identifying place and time. Intercoder reliability, in particular, with regard to identifying unique events, has proven to be a serious concern.<sup>21</sup> More practically, updating and maintaining data has been challenging. Currently, the data tend to cover the period 1989 – 2006 with only the deployment data more updated. In our opinion, (semi-)automated coding of peacekeeping events is promising. We were able to develop dictionaries that result in a 70 – 80% accuracy in identifying events. Given the increasing interest in peacekeeping event data, this may well prove to be a fruitful avenue for future collaboration.

Thirdly, the peacekeeping event data are geocoded (although with varying precision) allowing them to match to data-grids (such as the PRIO-grid<sup>22</sup>). The obvious advantage is that it allows researchers to link peacekeeping data with other geo-referenced data on terrain, demographics, and conflict.

In our opinion and given the salience of debate between macro and micro dynamics of conflict resolution, as well as the need to distinguish between the space and place of local peacekeeping, more disaggregated data are not just useful but necessary. Peacekeeping event data help to identify the presence (and size) of peacekeeping deployment locally, but also with whom peacekeepers interact and in what capacity. The full potential of our data is yet to be explored. However, it is promising that we have now data (PKOLED) identifying when peacekeepers interact with local, rebel and central authorities and whether peacekeepers are directly involved or mainly observers. PKOLED further identifies a large number of events or activities that can be aggregated into

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<sup>21</sup> Ruggeri, Gizelis and Dorussen, 'Events Data'

<sup>22</sup> Tollefsen, Strand and Bugaug, 'PRIO-GRID'

meaningful categories.<sup>23</sup> Further, PKODEP identifies where peacekeepers are deployed, their size and who they are. Future challenges include how to semi-automate data collection in order to improve data quality, provide data updates and extend these geo-referenced data event also to other peacekeeping mission from non-UN organizations.

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<sup>23</sup> Based on the PKOLED codebook, we were able to identify 'verbs' to build dictionaries to recover the aggregate categories in automated text-coding with a reasonable (70-80%) precision.

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